

## CLAIMS:

What we claim as our invention is as follows:

1. A liquid additive and a supplementary health pill with comprehensive and multi-functions for making a new type of cigarette:

The functions of the additive and health pill include reducing toxicity in tobacco smoke, strengthening the health of smokers, and gradually eliminate the addiction to nicotine to quit smoking. These functions are interrelated and work in coordination.

2. Reducing toxicity on a broader scale and by a larger margin:

The liquid additive will reduce the toxicity in tobacco smoke such as nicotine, tar (including polycyclic aromatic hydrocarbons represented by 3, 4 benzo(a)phrene), carbon monoxide, nitric oxide compound, hydro cyanic acid, cadmium, mercury, arsenic, as well as the particular nitrosamine in tobacco; For instance, this additive will reduce nicotine by 90% to 97% (50% more reduction than "light" cigarettes), tar by 75% to 85% (25% more reduction than "light" cigarettes).

In light of the Claim 2 above, we designed the following compositions and contents of the liquid additive for 100 grams of tobacco:

<u>Components</u>	<u>Content</u>
Tween-80	0.7-15ml
Hot water (55-60°C)	50-100 ml
Cerium dioxide	7-134mg
Sulfuric acid (5%-20%) V/V	0.2-10 ml
Selenium dioxide	0.4-8mg
B-cyclodextrin	0.1- 4 g
Hydrogen peroxide (3% or 6%)	30-600 ml

Potassium permanganate	15-150 mg
*Cupric Sulfate	45--400 mg
Cupric Oxide	20--270 mg
Activated Manganese dioxide	10--100 mg

Note: The components with \* are those also for the function of eliminating smoking addiction.

3. Preventing more diseases and strengthening health more effectively:

This health pill is designed to repair the damages at a molecule or cell level, wipe out free radicals, and resolve peroxide in order to protect the structures and functions of cell and cell membrane. It can prevent a broad scope of diseases including various cancers, cardiovascular diseases, respiratory diseases, and other smoking related diseases and problems. We creatively apply a co-enzyme to resuming the activity of glutathione peroxidase (GSH-PX) so as to guarantee its unfailing effect in reducing tobacco toxicity and preventing diseases.

In light of the Claim 3 above, we designed the following components and contents of the health pills for 100 gram of tobacco (about 20 cigarettes x 6.667 packs):

<u>Components</u>	<u>Contents</u>
Sodium selenite	0.2-14.6 mg
B-cyclodextrin (1.85%)	3.5-67 ml
*Vitamin E	0.2-10 g
*Vitamin A	3-35 mg
Butylated hydroxytoluene	0.3-27 mg
Riboflavin	7-200 mg
*Nicotinic acid	7-2000 mg

\*Pyridoxine hydrochloride 33-2000 mg

The components above are for coated pill ACA104-2A and the following is for coated pill ACA 104-2B:

<u>Components</u>	<u>Contents</u>
*Ascorbic acid	0.07-6 g

Note: The components with \* are those also for the function of eliminating smoking addiction.

Dose: For those who smoke 20 cigs daily, take 2 pills before eating in the morning or half an hour before smoking; take 2 pills one hour after lunch.

For those who smoke 10 cigs daily, take 1 pill twice a day at the same time as stated above.

4. Eliminating addiction safely and effectively:

Since nicotine releases a great deal of dopamine and glutamic acid in the human brain, which are the major causes of addiction, we designed three channels to decrease dopamine and glutamic acid by using a) copper compound & manganese compound to strengthen MAO's activity; b) VB6 to turn glutamic acid to  $\gamma$ -aminobutyric acid (GABA); c) VA, VE, VC and other anti-oxidants to prevent excessive iron in the body from releasing glutamic acid in the brain. It is a more scientific, effective and safer way in smoking cessation than using nicotine replacement products.

ADDITIONAL CLAIM: < *Note* > :

When necessary, this invention can be divided into three parts – toxicity reduction, health enhancement, and addiction elimination. Each part can be an independent claim.